the corresponding support arm to the corresponding actuator mechanism, the corresponding third hinge being configured to pivotally couple a second end of the corresponding support arm to the element structure.

3(original). The MEMS optical component of claim 2 wherein the MEMS optical component is monolithically fabricated on the integrated MEMS chip.

4. (presently amended) The MEMS optical component of claim 1 further comprising a locking latch assembly, the locking latch assembly comprising:

a corresponding actuator mechanism formed on [the] an insulating layer, the corresponding actuator mechanism being configured to be controllably moved laterally with respect to the insulating layer;

a locking latch pivotally coupled to the insulating layer and moveably coupled to the corresponding actuator mechanism, the locking latch having a slot sized to closely receive a side of the element structure, the locking latch having a lying position parallel to the insulating layer and a locking position in which the slot receives the side of the element structure when the element structure is in the upright position;

wherein, when the corresponding actuator mechanism is controlled to move laterally, the locking latch pivots so as to move from the lying position to the locking position.

5. (presently amended) The MEMS optical component of claim 1 wherein:

the element structure assembly further[,] comprises[:] ~~comprising~~:

a corresponding first hinge configured to pivotally couple the element structure to [the] an insulating layer;

a corresponding support arm, a corresponding second hinge, and a corresponding third hinge configured to moveably couple the element structure to the corresponding actuator mechanism, the corresponding second hinge being configured to pivotally couple a first end of the corresponding support arm to the corresponding actuator mechanism, the corresponding third

a corresponding support arm, a corresponding second hinge, and a corresponding third hinge configured to moveably couple the element structure to the corresponding actuator mechanism, the corresponding second hinge being configured to pivotally couple a first end of the corresponding support arm to the corresponding actuator mechanism, the corresponding third hinge being configured to pivotally couple a second end of the corresponding support arm to the element structure.

15. (presently amended) The optical network of claim ~~15~~ 14 wherein each of the MEMS optical components is [monolithiocally] monolithically fabricated on the integrated MEMS chip.

16. (presently amended) The optical network of claim 13 wherein each of the MEMS optical components further comprises a locking latch assembly, the locking latch assembly comprising:

a corresponding actuator mechanism formed on [the] an insulating layer, the corresponding actuator mechanism being configured to be controllably moved laterally with respect to the insulating layer;

a locking latch pivotally coupled to the insulating layer and moveably coupled to the corresponding actuator mechanism, the locking latch having a slot sized to closely receive a side of the element structure, the locking latch having a lying position parallel to the insulating layer and a locking position in which the slot receives the side of the element structure when the element structure is in the upright position;

wherein, when the corresponding actuator mechanism is controlled to move laterally, the locking latch pivots so as to move from the lying position to the locking position.

17. (original) The optical network of claim 16 wherein:

the element structure assembly of each of the MEMS optical components further comprises:

a corresponding first hinge configured to pivotally couple the element structure to the insulating layer;

an element structure coupled to the moveable stage and comprising an optical element;

wherein, when the actuator mechanism is controlled to move, the moveable stage moves the element structure.

20. (original) An optical device integrated on an integrated MEMS chip, the optical device comprising one or more MEMS optical components, each of the MEMS optical components comprising:

a moveable stage assembly comprising:

an actuator mechanism formed on the integrated MEMS chip, the actuator mechanism being configured to be controlled to move on the integrated MEMS chip;

a moveable stage formed on the integrated MEMS chip and fixedly coupled to the actuator mechanism, the moveable stage being configured to be moved on the integrated MEMS chip;

an element structure coupled to the moveable stage and comprising an optical element;

wherein, when the actuator mechanism is controlled to move, the moveable stage moves the element structure.

21. (presently amended) An optical network comprising:

one or more optical input sources;

one or more optical output collectors; and

an optical device optically coupled between the one or more optical input sources and the one or more optical output collectors, the optical device being formed on [a] an integrated MEMS chip, the optical device comprising one or more MEMS optical components, each of the MEMS optical components comprising:

a moveable stage assembly comprising: